

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000512

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A62C 3/00, A62C 35/00, A62C 35/58, A62C 37/48, F24F 3/16, F24F 13/02,
F24F 7/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A62C, F24F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPO-INTERNAL, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5957212 A (GÖRAN SUNDHOLM), 28 Sept 1999 (28.09.1999), column 1, line 21 - line 62, figures 1-5, claims 1-8 --	1-11
A	US 4765231 A (MICHAEL J. ANIELLO), 23 August 1988 (23.08.1988), column 2, line 9 - column 3, line 11, claims 1-14, see fig. --	1-11
A	EP 0523283 A1 (SPIELDIENEER, ROBERT), 20 January 1993 (20.01.1993), column 2, line 4 - column 4, line 14, figures 1-6, claims 1-16 --	1-11

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

26 November 2004

Date of mailing of the international search report

01-12-2004

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INTERNATIONAL SEARCH REPORT

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PCT/FI 2004/000512

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5702299 A (GÖRAN SUNDHOLM), 30 December 1997 (30.12.1997), column 1, line 5 - line 67, figures 1-2,5, claims 1-7 --	1-11
A	US 5687796 A (GÖRAN SUNDHOLM), 18 November 1997 (18.11.1997), column 1, line 3 - line 52, figures 1-6,16-18, claims 1-6 -- -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/10/2004

International application No.

PCT/FI 2004/000512

US	5957212	A	28/09/1999	AT	163556	T	15/03/1998
				AU	668394	B	02/05/1996
				AU	4041893	A	29/11/1993
				BR	9306303	A	30/06/1998
				CA	2134216	A	11/11/1993
				DE	69317280	D,T	08/10/1998
				DK	637977	T	06/04/1998
				EP	0637977	A,B	15/02/1995
				SE	0637977	T3	
				ES	2112986	T	16/04/1998
				FI	94098	B,C	13/04/1995
				FI	921937	A	30/10/1993
				JP	3341892	B	05/11/2002
				JP	7506272	T	13/07/1995
				KR	260647	B	01/07/2000
				NO	304818	B	22/02/1999
				NO	944119	A	28/10/1994
				RU	2111029	C	20/05/1998
				SG	49209	A	18/05/1998
				US	5687796	A	18/11/1997
				WO	9321997	A	11/11/1993

US	4765231	A	23/08/1988	NONE
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EP	0523283	A1	20/01/1993	AT	120843	T	15/04/1995
				DE	4123657	A	21/01/1993
				DE	9113513	U	19/12/1991
				DE	59105122	D	00/00/0000

US	5702299	A	30/12/1997	AU	673737	B	21/11/1996
				AU	6571294	A	12/12/1994
				CA	2160891	A	24/11/1994
				CN	1059351	B	13/12/2000
				CN	1123006	A	22/05/1996
				DE	69433358	D,T	09/09/2004
				DK	703807	T	29/03/2004
				EP	0703807	A,B	03/04/1996
				SE	0703807	T3	
				EP	1029561	A	23/08/2000
				ES	2210253	T	01/07/2004
				FI	932135	D	00/00/0000
				FI	955425	A	10/11/1995
				JP	8510042	T	22/10/1996
				NO	314440	B	24/03/2003
				NO	954540	A	10/11/1995
				RU	2120317	C	20/10/1998
				SG	47402	A	17/04/1998
				WO	9426356	A	24/11/1994

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US	5687796	A	18/11/1997	AT	163556	T	15/03/1998
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				US	5957212	A	28/09/1999
				WO	9321997	A	11/11/1993
